

Patent Abstracts of Japan

PUBLICATION NUMBER : 63303227
PUBLICATION DATE : 09-12-88

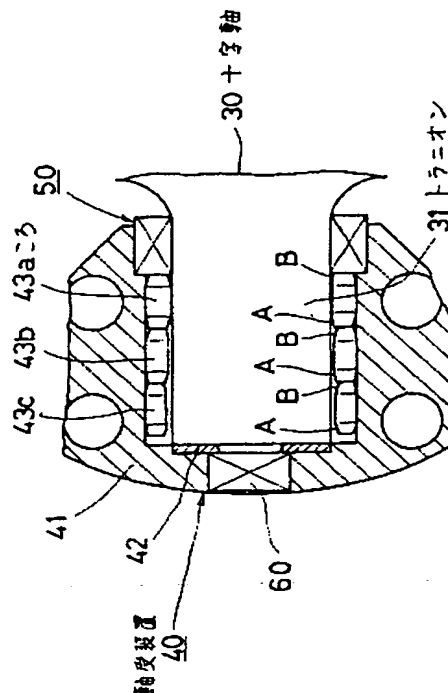
APPLICATION DATE : 30-05-87
APPLICATION NUMBER : 62135690

APPLICANT : KOYO SEIKO CO LTD;

INVENTOR : MAKASE KEIICHIROU;

INT.CL. : F16D 3/41 F16C 19/28

TITLE : BEARING DEVICE FOR UNIVERSAL JOINT



ABSTRACT : PURPOSE: To uniform the loads to be applied to rollers and extend the life by making a diameter of the roller arranged at a base portion of a trunnion smaller than that of the roller arranged at an end portion of the trunnion, and making a bearing clearance at the end portion greater than that at the base portion.

CONSTITUTION: A first set of rollers 43a are arranged at a base portion of a trunnion 31 of a spider 30. A second set of rollers 43b are arranged at an intermediate portion of the trunnion 31. A third set of rollers 43c are arranged at an end portion of the trunnion 31. Letting C_1 , C_2 and C_3 denote the diameters of the rollers 43a, 43b and 43c, respectively, the relationship among the diameters C_1 , C_2 and C_3 is set to $C_1 > C_2 > C_3$. Further, a bearing clearance of the third set of rollers 43c is made greater than that of the first set of rollers 43a. Accordingly, the loads to be applied to the first to third sets of rollers 43a-43c may be uniformed to thereby prevent the generation of flaking and extend the life.

COPYRIGHT: (C)1988,JPO&Japio